

Claims

We claim:

1. A shock absorber for use in a disc reading device, including a rotation motor, the shock absorber comprising:
a damper for selectively restraining vibration of the rotation motor; and
a compression device for selectively compressing the damper;
wherein as the rotation motor is in a first state, the compression device doesn't compress the damper, and as the rotation motor is in a second state, the compression device compresses the damper.
2. The shock absorber according to claim 1, wherein the compression device further comprises a detection circuit and a compression mechanism, and the detection circuit detects state of the rotation motor and selectively controls the compression mechanism to compress the damper.
3. The shock absorber according to claim 1, wherein the first state and the second state respectively represent different rotation speed of the rotation motor.
4. The shock absorber according to claim 1, wherein the compression device compresses the damper to increase a natural frequency of the damper.
5. A method for preventing vibration of a disc reading device, including a rotation motor, a damper and a compression device, the method comprising:
detecting state of the rotation motor; and

the compression device not compressing the damper as the rotation motor is in a first state, and the compression device compressing the damper as the rotation motor is in a second state to restrain vibration caused by the rotation motor.

6. The method according to claim 5, wherein the compression device further comprises a detection circuit and a compression mechanism, and the detection circuit detects state of the rotation motor and selectively controls the compression mechanism to compress the damper.
7. The method for according to claim 5, wherein the first state and the second state respectively represent different rotation speed of the rotation motor.
8. The method according to claim 5, wherein the compression device compresses the damper to increase a natural frequency of the damper.